

# M M W R

## MORBIDITY AND MORTALITY WEEKLY REPORT

- Epidemiologic Notes and Reports**  
**439** Legionnaires' Disease — United States  
**442** Follow-up on Cholera — La.  
**447** Human Exposure to Rabies — Ala.  
**Current Trends**  
**447** Influenza Vaccine for High-Risk Children  
**448** Gonorrhea — United States  
**International Notes**  
**449** Encephalitis Outbreak — India  
**449** Vaccines for International Travel

### *Epidemiologic Notes and Reports*

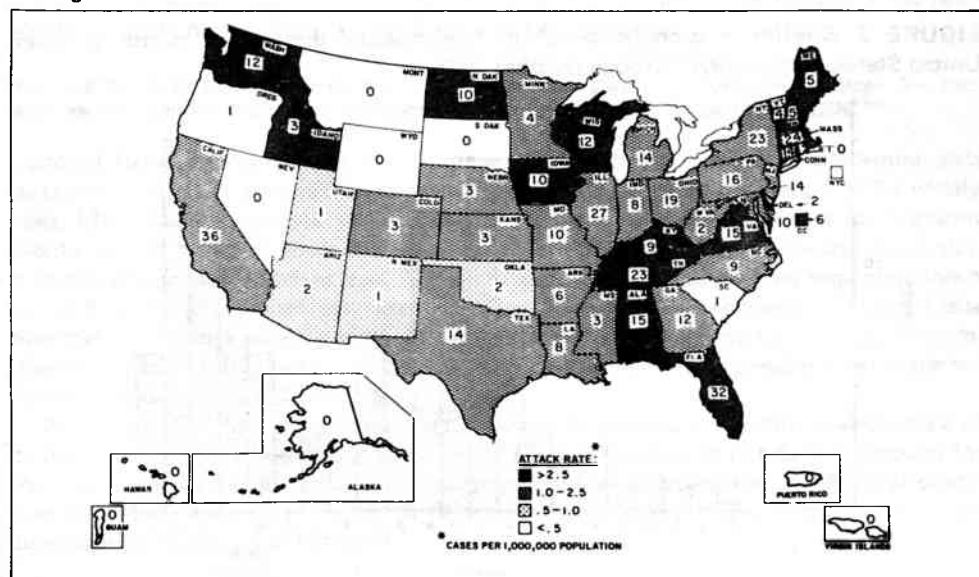
#### Legionnaires' Disease — United States

As of October 31, 1978, 453 sporadic cases of infection with the Legionnaires' disease bacterium (LDB) have been confirmed in the United States\* by  $\geq 4$ -fold rise in antibody titer to a reciprocal titer of  $\geq 128$ , as measured by indirect immunofluorescence, demonstration of the organism in tissue by direct immunofluorescence, or culture of the organism. The earliest case had onset in May 1973.

These 453 cases, which are in addition to the confirmed outbreak-associated cases in Ohio, Vermont, Tennessee, California, Georgia, New York, Michigan, Indiana, Texas, Pennsylvania, and the District of Columbia, have occurred in 43 states and the District of Columbia. Outbreaks associated with apparent common exposure in Indiana and Texas each predominantly affected travelers from several states. The majority of sporadic cases have been in eastern and midwestern states (Figure 1). The geographic distribution of the 13 known outbreaks is similar.

\*As of November 7, 43 more sporadic cases have been reported that are not included in these analyses—2 from Oregon, and 41 from Michigan. Dates of onset in most cases are since January 1, 1978.

**FIGURE 1. Sporadic cases of Legionnaires' disease,† by state, United States, May 1973 through October 1978**



†Numbers within states indicate total reported cases per state.

*Legionnaires' Disease — Continued*

The number of sporadic cases by month of onset of symptoms peaked in September 1977 and has averaged approximately 20 cases per month over the past year (Figure 2). The rising number of cases with onset from August 1976 to September 1977 is partly due to increased numbers of specimens being submitted in late 1977, when LD testing became widely available. The progressive decrease from September 1977 to a low in February 1978, and the progressive increase since then may indicate a true seasonality paralleling that demonstrated by outbreak cases (Figure 3).

Where the sex of the patient was known, the sporadic cases included 309 men and 128 women. The youngest patient was a 2-year-old boy; the oldest patient was an 84-year-old man. The median age for males is 54 years, for females 56 years. Death directly attributable to Legionnaires' disease (LD) has occurred in 86 (19%) of the sporadic cases in which the outcome was known. Among 244 cases in which race was known, 210 occurred in whites and 34 occurred in blacks.

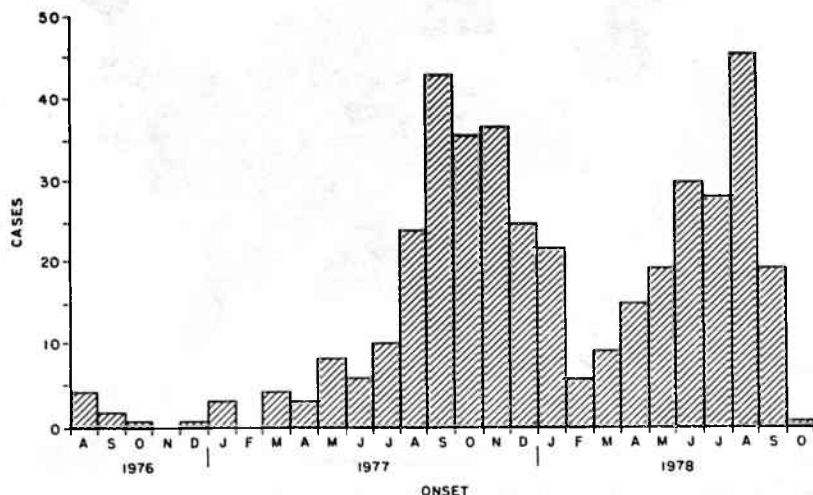
Among 558 cases of LD associated with 10 outbreaks,\* 412 were male and 146 were female. There were 70 deaths among these 558 cases, representing 14% of cases presenting with pneumonia. The relatively large number of sporadic cases confirmed by direct immunofluorescence (a test that generally has been performed on autopsy material) may partly explain the higher case-fatality rate associated with sporadic cases.

Among sporadic cases in which death was directly attributable to LD, the median age was 56 years; among cases in which the sex was known, 59 were males and 19 were females. The case-fatality rate for men was 19%, for women 15%. There was no significant change in the case-fatality rate with increasing age.

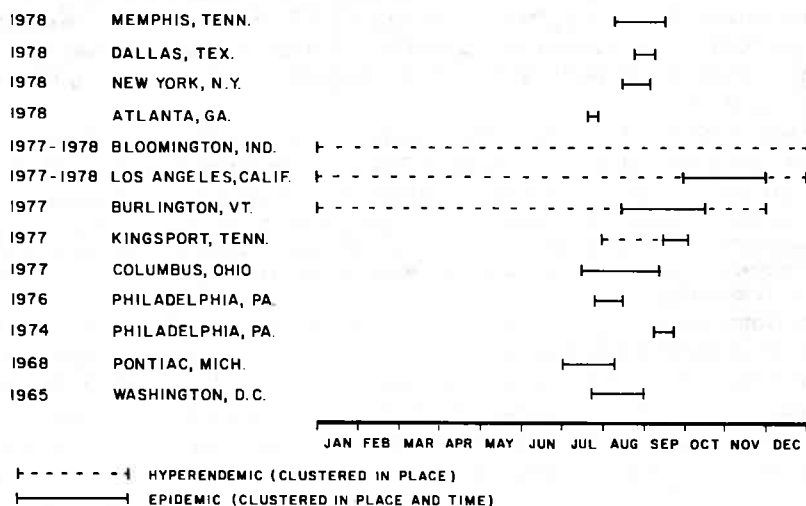
As a result of investigations of outbreaks in Bloomington, Ind., Memphis, Tenn., and Atlanta, Ga., LDB has been isolated from water from 2 cooling towers, 2 evaporative condensers, and a creek.

Three hundred seventy-four cases have been confirmed by serology alone, 59 by direct immunofluorescence alone, 4 by culture alone, 8 by serology and direct immunofluores-

**FIGURE 2. Confirmed sporadic cases\* of Legionnaires' disease, by month of onset, United States, August 1976 through October 1978**



\*453 cases, as of October 31, 1978; excludes 51 cases in which the month of onset is not known

*Legionnaires' Disease — Continued***FIGURE 3. Seasonal distribution of Legionnaires' disease outbreaks, by location, 1965 through 1978**

cence, 4 by culture and direct immunofluorescence, 1 by serology and culture, and 1 by all 3 methods. In 2 cases the method of diagnosis is unknown. Among 59 cases confirmed by direct immunofluorescence in which the sources of the specimens are known, 52 have been confirmed from lung specimens obtained by biopsy or autopsy alone, 2 from lung aspirates, 1 from a bronchoscopy specimen, 1 from pleural fluid alone, 1 from a trans-tracheal aspirate, 1 from sputum, and 1 from lung and pleural fluid specimens. Among 3 culture-confirmed cases in which the sources of the specimens are known, 1 has been confirmed from pleural fluid, 1 from lung, and 1 from pleural fluid and lung.

*Reported by State Epidemiologists from 43 states and the District of Columbia; Virology Div, Bacteriology Div, Bur of Laboratories, and Bacterial Diseases Div, Bur of Epidemiology, CDC.*

**Editorial Note:** In April 1978, the Conference of State and Territorial Epidemiologists agreed to make LD a reportable disease for 3 years. As specific testing is more widely used, LD is being diagnosed with increasing frequency. Serum specimens for diagnosis should include an acute-phase specimen drawn in the first week of illness and a convalescent-phase specimen drawn at least 22 days after onset of illness; another specimen drawn up to 6 weeks after onset may permit recognition of late seroconversion. Lung tissue specimens providing greatest yield in establishing the diagnosis of LD include the combination of fresh refrigerated or frozen tissue for culture and wet formalin-fixed tissue for direct immunofluorescence testing.

While the CDC has no new or specific recommendations on routine maintenance of cooling towers in relation to the presence of LDB, adherence to standard procedures for the control of algae and bacteria that may interfere with satisfactory mechanical operation is advised. Laboratory work to determine procedures for decontamination of air-conditioning systems is underway.

\*excluding 95 cases among 100 office workers in Pontiac, Michigan, and excluding outbreaks in Memphis, Tennessee; Texas; and California because data collection is ongoing.

## Follow-up on Cholera — Louisiana

*Vibrio cholerae* O1 (serotype Inaba) has been isolated from a Moore swab (7) that had been in 1 of 2 main divisions of the sewerage system of Franklin, a town in the southern Louisiana parish of St. Mary, between October 20-23. State and local investigators are attempting to find the source of contamination through extensively surveying the sewerage system using Moore swabs and by culturing persons in Franklin who have recently had diarrheal illnesses.

No cases of cholera have been identified in Louisiana during the past month, despite extensive surveillance of diarrheal illnesses. The state has extended its surveillance of diarrheal illness and sewerage systems to include all of the coastal areas of Louisiana.

*Reported by HB Bradford, PhD, Director, Bur of Laboratories, CT Caraway, DVM, State Epidemiologist, Louisiana Dept of Health and Human Resources; Food and Drug Administration; Enteric Diseases Br, Epidemiologic Investigations Laboratory Br, Bacterial Diseases Div, Quarantine Div, Field Services Div, Bur of Epidemiology, CDC.*

**Editorial Note:** Moore swabs in sewerage systems have been an effective means of surveillance for *V. cholerae* O1 in Louisiana and thus far have been complimentary to and more sensitive than culturing persons seeking medical attention for diarrheal illnesses. Each surveillance method offers advantages. Culturing persons with diarrhea identifies infected persons even if their homes are not connected to municipal sewerage systems (6 of the 11 infected persons identified in Louisiana had septic tanks), and permits epidemiologic in-

(Continued on page 447)

**TABLE I. Summary — cases of specified notifiable diseases, United States**

[Cumulative totals include revised and delayed reports through previous weeks.]

| DISEASE   | 44th WEEK ENDING    |                      | MEDIAN<br>1973-1977** | CUMULATIVE, FIRST 44 WEEKS |                      |                       |
|---|---------------------|----------------------|-----------------------|----------------------------|----------------------|-----------------------|
|   | November 4,<br>1978 | November 5,<br>1977* |                       | November 4,<br>1978        | November 5,<br>1977* | MEDIAN<br>1973-1977** |
| Aseptic meningitis                              | 131                 | 109                  | 109                   | 5,105                      | 4,037                | 3,489                 |
| Brucellosis                                     | 3                   | 3                    | 3                     | 130                        | 188                  | 188                   |
| Chickenpox                                      | 1,322               | 1,374                | 1,374                 | 128,573                    | 166,224              | 148,654               |
| Diphtheria                                      | —                   | 2                    | 4                     | 64                         | 76                   | 157                   |
| Encephalitis: Primary (arthropod borne & unsp.) | 17                  | 27                   | 30                    | 851                        | 982                  | 1,254                 |
| Post-infectious                                 | 3                   | 3                    | 3                     | 175                        | 179                  | 236                   |
| Hepatitis, Viral: Type B                        | 254                 | 283                  | 276                   | 12,520                     | 13,889               | 9,848                 |
| Type A  | 581                 | 567                  | 793                   | 24,660                     | 25,913               | 29,633                |
| Type unspecified                                | 178                 | 138                  | —                     | 7,563                      | 7,405                | —                     |
| Malaria   | 18                  | 6                    | 6                     | 619                        | 463                  | 359                   |
| Measles (rubeola)                               | 167                 | 99                   | 179                   | 24,774                     | 53,646               | 24,955                |
| Meningococcal infections: Total                 | 39                  | 29                   | 26                    | 1,997                      | 1,473                | 1,222                 |
| Civilian  | 39                  | 28                   | 26                    | 1,972                      | 1,462                | 1,195                 |
| Military  | —                   | 1                    | 1                     | 25                         | 11                   | 26                    |
| Mumps   | 169                 | 356                  | 779                   | 14,331                     | 17,831               | 47,739                |
| Pertussis                                       | 42                  | 78                   | —                     | 1,738                      | 1,542                | —                     |
| Rubella (German measles)                        | 86                  | 90                   | 113                   | 16,959                     | 19,165               | 15,399                |
| Tetanus   | —                   | —                    | 2                     | 69                         | 63                   | 79                    |
| Tuberculosis                                    | 527                 | 537                  | 540                   | 25,007                     | 25,542               | 26,416                |
| Typhemia  | 7                   | 1                    | 1                     | 115                        | 142                  | 128                   |
| Typhoid fever                                   | 10                  | 7                    | 11                    | 437                        | 337                  | 360                   |
| Typhus fever, tick-borne (Rky. Mt. spotted)     | 9                   | 5                    | 5                     | 978                        | 1,080                | 783                   |
| Venereal diseases:                              |                     |                      |                       |                            |                      |                       |
| Gonorrhea: Civilian                             | 22,103              | 20,510               | 20,322                | 859,213                    | 847,356              | 847,356               |
| Military  | 587                 | 618                  | 618                   | 21,717                     | 23,021               | 24,639                |
| Syphilis, primary & secondary: Civilian         | 487                 | 382                  | 444                   | 18,277                     | 17,395               | 20,504                |
| Military  | 2                   | 3                    | 3                     | 253                        | 257                  | 295                   |
| Rabies in animals                               | 56                  | 51                   | 42                    | 2,665                      | 2,651                | 2,568                 |

**TABLE II. Notifiable diseases of low frequency, United States**

|                                      | CUM. 1978 |   | CUM. 1978 |
|--------------------------------------|-----------|---|-----------|
| Anthrax                              | 5         | Poliomyelitis: Total                                  | 3         |
| Botulism (NYC 1, Va. 1, Calif. 1)    | 65        | Paralytic   | 1         |
| Cholera                              | 11        | Psittacosis †   | 89        |
| Congenital rubella syndrome          | 25        | Rabies in man   | —         |
| Leprosy (N.J. 1, Calif. 1, Hawaii 2) | 132       | Trichinosis   | 47        |
| Leptospirosis (Ark. 1)               | 56        | Typhus fever, flea-borne (endemic, murine) (Hawaii 1) | 36        |
| Plague                               | 7         |   |           |

\*Delayed reports received for calendar year 1977 are used to update last year's weekly and cumulative totals.

\*\*Medians for gonorrhea and syphilis are based on data for 1975-1977.

†The following delayed report will be reflected in next week's cumulative total: Psittacosis: Colo. +4

TABLE III. Cases of specified notifiable diseases, United States, weeks ending  
November 4, 1978, and November 5, 1977 (44th week)

| REPORTING AREA   | ASEPTIC<br>MENIN-<br>GITIS | BRU-<br>CEL-<br>LOSIS | CHICKEN-<br>POX | DIPHTHERIA |              | ENCEPHALITIS |                      | HEPATITIS (VIRAL), BY TYPE |      |             | MALARIA |              |
|------------------|----------------------------|-----------------------|-----------------|------------|--------------|--------------|----------------------|----------------------------|------|-------------|---------|--------------|
|                  |                            |                       |                 |            |              | Primary      | Post-in-<br>fectious | B                          | A    | Unspecified |         |              |
|                  | 1978                       | 1978                  | 1978            | 1978       | CUM.<br>1978 | 1978         | 1977*                | 1978                       | 1978 | 1978        | 1978    | CUM.<br>1978 |
| UNITED STATES    | 131                        | 3                     | 1,322           | -          | 64           | 17           | 27                   | 3                          | 254  | 581         | 178     | 619          |
| NEW ENGLAND      | 6                          | -                     | 219             | -          | -            | 1            | -                    | -                          | 7    | 9           | 6       | 29           |
| Maine†           | -                          | -                     | -               | -          | -            | -            | -                    | -                          | -    | 1           | -       | 1            |
| N.H.             | 2                          | -                     | 4               | -          | -            | -            | -                    | -                          | 2    | -           | -       | 4            |
| Vt.              | -                          | -                     | 3               | -          | -            | -            | -                    | -                          | 1    | 2           | -       | -            |
| Mass.            | 1                          | -                     | 101             | -          | -            | -            | -                    | -                          | 2    | 1           | 6       | 7            |
| R.I.             | -                          | -                     | 47              | -          | -            | -            | -                    | -                          | 2    | 5           | -       | 5            |
| Conn.            | 3                          | -                     | 19              | -          | -            | 1            | -                    | -                          | -    | -           | 1       | 12           |
| MID. ATLANTIC    | 29                         | -                     | 43              | -          | 1            | 3            | 2                    | -                          | 33   | 34          | 22      | 134          |
| Upstate N.Y.     | 2                          | -                     | 13              | -          | -            | 1            | 1                    | -                          | 2    | 12          | 10      | 18           |
| N.Y. City        | 12                         | -                     | 14              | -          | 1            | 1            | 1                    | -                          | 15   | 13          | 4       | 61           |
| N.J.             | 3                          | -                     | NN              | -          | -            | -            | -                    | -                          | 15   | 9           | 8       | 26           |
| Pa.              | 12                         | -                     | 16              | -          | -            | 1            | -                    | -                          | NA   | NA          | NA      | 29           |
| E.N. CENTRAL     | 9                          | 1                     | 499             | -          | -            | 4            | 6                    | -                          | 41   | 94          | 10      | 41           |
| Ohio†            | -                          | 1                     | 36              | -          | -            | -            | 3                    | -                          | 9    | 26          | -       | 5            |
| Ind.†            | -                          | -                     | 61              | -          | -            | -            | -                    | -                          | 2    | 6           | 3       | 3            |
| Ill.             | 1                          | -                     | 47              | -          | -            | -            | -                    | -                          | 12   | 27          | 2       | 14           |
| Mich.            | 5                          | -                     | 202             | -          | -            | 4            | -                    | -                          | 14   | 26          | 5       | 17           |
| Wis.†            | 3                          | -                     | 153             | -          | -            | -            | 3                    | -                          | 4    | 9           | -       | 2            |
| W.N. CENTRAL     | 13                         | -                     | 158             | -          | 2            | 1            | 1                    | -                          | 8    | 61          | 5       | 22           |
| Minn.            | -                          | -                     | -               | -          | -            | -            | -                    | -                          | 1    | 28          | -       | 4            |
| Iowa             | 3                          | -                     | 121             | -          | -            | 1            | -                    | -                          | 1    | 1           | 1       | -            |
| Mo.              | 1                          | -                     | -               | -          | 1            | -            | -                    | -                          | 2    | 15          | 1       | 8            |
| N. Dak.          | -                          | -                     | 1               | -          | -            | -            | -                    | -                          | -    | 10          | -       | -            |
| S. Dak.          | -                          | -                     | -               | -          | -            | -            | -                    | -                          | -    | -           | -       | 1            |
| Nebr.            | 9                          | -                     | -               | -          | 1            | -            | -                    | -                          | 2    | 4           | -       | 4            |
| Kans.†           | -                          | -                     | 36              | -          | -            | -            | 1                    | -                          | 2    | 3           | 3       | 5            |
| S. ATLANTIC      | 23                         | 1                     | 109             | -          | -            | 2            | 2                    | 2                          | 55   | 94          | 25      | 110          |
| Del.             | 1                          | -                     | 4               | -          | -            | -            | -                    | -                          | -    | -           | -       | 1            |
| Md.              | 8                          | -                     | 2               | -          | -            | 1            | -                    | -                          | 12   | 12          | 3       | 24           |
| D.C.             | -                          | -                     | -               | -          | -            | -            | -                    | -                          | -    | -           | -       | 6            |
| Va.†             | -                          | -                     | 7               | -          | -            | -            | 1                    | -                          | 5    | 9           | 1       | 20           |
| W. Va.†          | -                          | -                     | 67              | -          | -            | -            | -                    | -                          | 4    | 1           | -       | 1            |
| N.C.             | 6                          | -                     | NN              | -          | -            | 1            | -                    | -                          | 4    | 7           | 1       | 10           |
| S.C.†            | -                          | -                     | 2               | -          | -            | -            | -                    | -                          | 5    | 3           | 2       | 4            |
| Ga.              | -                          | -                     | -               | -          | -            | -            | -                    | -                          | 5    | 22          | -       | 10           |
| Fla.             | 8                          | 1                     | 27              | -          | -            | 1            | 2                    | 27                         | 37   | 17          | 2       | 34           |
| E.S. CENTRAL     | 7                          | -                     | 109             | -          | -            | 1            | 8                    | -                          | 12   | 23          | -       | 6            |
| Ky.              | 1                          | -                     | 106             | -          | -            | -            | -                    | -                          | 2    | 6           | -       | 2            |
| Tenn.            | 5                          | -                     | NN              | -          | -            | 1            | -                    | -                          | 6    | 6           | -       | 1            |
| Ala.             | -                          | -                     | 2               | -          | -            | -            | 3                    | -                          | 3    | 6           | -       | 1            |
| Miss.            | 1                          | -                     | 1               | -          | -            | -            | 5                    | -                          | 1    | 5           | -       | 2            |
| W.S. CENTRAL     | 5                          | 1                     | 16              | -          | 1            | 1            | 2                    | -                          | 14   | 59          | 37      | 29           |
| Ark.             | -                          | 1                     | -               | -          | 1            | -            | -                    | -                          | 4    | -           | 2       | 1            |
| La.              | -                          | -                     | NN              | -          | -            | -            | -                    | -                          | -    | -           | -       | 3            |
| Okla.            | -                          | -                     | -               | -          | -            | -            | -                    | -                          | 2    | 6           | 3       | 2            |
| Tex.†            | 5                          | -                     | 16              | -          | -            | 1            | 2                    | -                          | 8    | 53          | 32      | 23           |
| MOUNTAIN         | 4                          | -                     | 33              | -          | 4            | -            | -                    | -                          | 12   | 59          | 26      | 8            |
| Mont.†           | -                          | -                     | 4               | -          | -            | -            | -                    | -                          | -    | 2           | -       | -            |
| Idaho†           | 1                          | -                     | 1               | -          | -            | -            | -                    | -                          | -    | 9           | -       | -            |
| Wyo.             | 1                          | -                     | -               | -          | -            | -            | -                    | -                          | -    | -           | 1       | -            |
| Colo.            | 1                          | -                     | 18              | -          | 2            | -            | -                    | -                          | 3    | 4           | 1       | 4            |
| N. Mex.          | -                          | -                     | -               | -          | -            | -            | -                    | -                          | 1    | 11          | 2       | 1            |
| Ariz.            | -                          | -                     | NN              | -          | 1            | -            | -                    | -                          | 6    | 24          | 15      | 2            |
| Utah             | 1                          | -                     | 10              | -          | -            | -            | -                    | -                          | 1    | 8           | 6       | -            |
| Nev.             | -                          | -                     | -               | -          | 1            | -            | -                    | -                          | 1    | 1           | 1       | 1            |
| PACIFIC          | 35                         | -                     | 136             | -          | 56           | 4            | 6                    | 1                          | 72   | 148         | 47      | 240          |
| Wash.            | -                          | -                     | 98              | -          | 52           | -            | -                    | -                          | 4    | 23          | 5       | 8            |
| Oreg.            | -                          | -                     | -               | -          | -            | -            | -                    | 1                          | 6    | 21          | 3       | 9            |
| Calif.†          | 35                         | -                     | -               | -          | 1            | 4            | 4                    | -                          | 61   | 101         | 39      | 199          |
| Alaska†          | -                          | -                     | 30              | -          | 3            | -            | -                    | -                          | -    | -           | -       | 4            |
| Hawaii           | -                          | -                     | 8               | -          | -            | -            | 2                    | -                          | 1    | 3           | -       | 20           |
| Guam†            | NA                         | NA                    | NA              | NA         | -            | NA           | -                    | -                          | NA   | NA          | NA      | -            |
| Pac. Trust Terr. | NA                         | NA                    | NA              | NA         | -            | NA           | NA                   | NA                         | NA   | NA          | NA      | -            |
| P.R.             | -                          | -                     | 13              | -          | -            | -            | -                    | -                          | 1    | 2           | 6       | 4            |
| V.I.             | -                          | -                     | -               | -          | -            | -            | -                    | -                          | -    | -           | -       | 1            |

NN: Not notifiable.

NA: Not available.

\*Delayed reports received for 1977 are not shown below but are used to update last year's weekly and cumulative totals.

†The following delayed reports will be reflected in next week's cumulative totals: Asep. meng.: Ohio +8, Ind. +7, Wis. -2, Kans. -1, S.C. -2, Mont. -1; Chickenpox: Maine +1, W.Va. -40, Calif. +14, Alaska -1, Guam +3, P.R. +1; Enceph.: Ind. +1, W.Va. +2; Hep. B: W.Va. +1, Idaho +1; Hep. A: Wis. +6, W.Va. -5, Tex. +5, Idaho -1; Hep. unsp.: Va. -2, W.Va. +2, Tex. -5, Guam +3.

TABLE III (Cont'd). Cases of specified notifiable diseases, United States, weeks ending  
November 4, 1978, and November 5, 1977 (44th week)

| REPORTING AREA   | MEASLES (RUBEOLA) |              |               | MENINGOCOCCAL INFECTIONS<br>TOTAL |              |               | MUMPS |              | PERTUSSIS | RUBELLA |              | TETANUS      |
|------------------|-------------------|--------------|---------------|-----------------------------------|--------------|---------------|-------|--------------|-----------|---------|--------------|--------------|
|                  | 1978              | CUM.<br>1978 | CUM.<br>1977* | 1978                              | CUM.<br>1978 | CUM.<br>1977* | 1978  | CUM.<br>1978 | 1978      | 1978    | CUM.<br>1978 | CUM.<br>1978 |
| UNITED STATES    | 167               | 24,774       | 53,646        | 39                                | 1,997        | 1,473         | 169   | 14,331       | 42        | 86      | 16,959       | 69           |
| NEW ENGLAND      | 26                | 2,015        | 2,503         | 4                                 | 113          | 59            | 25    | 780          | 1         | 11      | 760          | 3            |
| Maine            | -                 | 1,316        | 172           | -                                 | 8            | 3             | 19    | 511          | -         | -       | 153          | -            |
| N.H.             | 6                 | 58           | 511           | -                                 | 9            | 3             | -     | 15           | -         | 2       | 104          | -            |
| Vt.              | 18                | 51           | 294           | -                                 | 2            | 6             | -     | 5            | -         | -       | 27           | 2            |
| Mass.            | 2                 | 254          | 629           | 1                                 | 42           | 17            | -     | 93           | -         | 9       | 230          | -            |
| R.I.             | -                 | 8            | 64            | -                                 | 19           | 2             | 4     | 47           | 1         | -       | 42           | -            |
| Conn.            | -                 | 328          | 833           | 3                                 | 34           | 28            | 2     | 112          | -         | -       | 204          | 1            |
| MID. ATLANTIC    | 11                | 2,214        | 8,403         | 6                                 | 336          | 191           | 8     | 670          | -         | 4       | 3,026        | 5            |
| Upstate N.Y.     | 1                 | 1,410        | 3,845         | 2                                 | 107          | 43            | 1     | 219          | -         | 1       | 533          | 2            |
| N.Y. City        | 10                | 372          | 745           | 2                                 | 77           | 51            | -     | 157          | -         | 1       | 140          | -            |
| N.J. †           | -                 | 74           | 197           | 1                                 | 61           | 46            | 1     | 142          | -         | -       | 1,609        | -            |
| Pa.              | -                 | 358          | 3,616         | 1                                 | 91           | 51            | 6     | 152          | -         | 2       | 744          | 3            |
| E.N. CENTRAL     | 45                | 11,113       | 11,457        | 4                                 | 214          | 169           | 67    | 5,813        | 4         | 32      | 8,495        | 3            |
| Ohio             | -                 | 492          | 1,859         | 1                                 | 71           | 61            | 22    | 1,019        | 1         | 1       | 1,376        | 1            |
| Ind. †           | 6                 | 236          | 4,346         | 1                                 | 38           | 12            | 1     | 329          | 2         | 6       | 607          | 1            |
| Ill.             | 12                | 1,172        | 1,789         | -                                 | 30           | 37            | 12    | 1,906        | 1         | 15      | 1,737        | 1            |
| Mich.            | 23                | 7,759        | 1,014         | 1                                 | 63           | 45            | 16    | 1,447        | -         | 5       | 3,220        | -            |
| Wis. †           | 4                 | 1,484        | 2,449         | 1                                 | 12           | 14            | 16    | 1,112        | -         | 6       | 1,355        | -            |
| W.N. CENTRAL     | -                 | 401          | 9,510         | 2                                 | 72           | 63            | 19    | 1,981        | 3         | 3       | 688          | 7            |
| Minn.            | -                 | 38           | 2,625         | 2                                 | 21           | 19            | -     | 22           | -         | 1       | 129          | 1            |
| Iowa             | -                 | 55           | 4,313         | -                                 | 5            | 9             | 14    | 153          | 3         | 1       | 62           | -            |
| Mo.              | -                 | 15           | 1,045         | -                                 | 29           | 23            | -     | 1,172        | -         | -       | 109          | 1            |
| N. Dak.          | -                 | 199          | 27            | -                                 | 3            | 1             | 1     | 16           | -         | -       | 82           | -            |
| S. Dak.          | -                 | -            | 75            | -                                 | 3            | 4             | -     | 7            | -         | 1       | 112          | 1            |
| Nebr.            | -                 | 5            | 214           | -                                 | -            | 2             | -     | 25           | -         | -       | 34           | -            |
| Kans.            | -                 | 90           | 1,214         | -                                 | 11           | 5             | 4     | 586          | -         | -       | 160          | 4            |
| S. ATLANTIC      | 31                | 5,198        | 4,666         | 14                                | 500          | 328           | 12    | 869          | 7         | 3       | 1,047        | 17           |
| Del.             | -                 | 7            | 22            | -                                 | 16           | 22            | -     | 56           | -         | 1       | 36           | -            |
| Md.              | -                 | 51           | 372           | 1                                 | 35           | 22            | 1     | 71           | -         | -       | 7            | 2            |
| D.C.             | -                 | 1            | 14            | -                                 | 2            | -             | -     | 2            | -         | -       | 1            | -            |
| Va. †            | -                 | 2,830        | 2,745         | -                                 | 59           | 30            | -     | 176          | -         | -       | 247          | 1            |
| W. Va. †         | 1                 | 1,057        | 254           | -                                 | 14           | 9             | -     | 180          | -         | 2       | 328          | -            |
| N.C.             | -                 | 121          | 65            | -                                 | 95           | 70            | 2     | 73           | -         | -       | 190          | 3            |
| S.C.             | -                 | 199          | 155           | 1                                 | 30           | 35            | -     | 17           | -         | -       | 28           | 4            |
| Ga.              | -                 | 34           | 768           | 3                                 | 56           | 47            | 1     | 70           | 4         | -       | 27           | -            |
| Fla.             | 30                | 898          | 271           | 9                                 | 194          | 93            | 8     | 224          | 3         | -       | 183          | 7            |
| E.S. CENTRAL     | 4                 | 1,428        | 2,034         | 1                                 | 157          | 155           | 4     | 1,180        | 7         | 6       | 514          | 3            |
| Ky.              | 1                 | 120          | 1,191         | -                                 | 30           | 31            | 3     | 214          | 6         | 3       | 134          | 2            |
| Tenn.            | 2                 | 960          | 727           | -                                 | 41           | 41            | -     | 453          | 1         | 2       | 206          | -            |
| Ala.             | -                 | 101          | 78            | -                                 | 47           | 53            | 1     | 429          | -         | -       | 22           | -            |
| Miss.            | 1                 | 247          | 38            | 1                                 | 39           | 30            | -     | 84           | -         | 1       | 152          | 1            |
| W.S. CENTRAL     | 24                | 1,178        | 2,141         | 3                                 | 285          | 285           | 20    | 1,769        | 4         | 6       | 949          | 14           |
| Ark.             | -                 | 16           | 29            | -                                 | 22           | 15            | -     | 602          | -         | -       | 58           | 1            |
| La.              | 1                 | 344          | 75            | 2                                 | 119          | 130           | -     | 65           | -         | -       | 486          | 1            |
| Okla.            | -                 | 14           | 65            | 1                                 | 17           | 14            | -     | 4            | 1         | 3       | 16           | 3            |
| Tex.             | 23                | 804          | 1,972         | -                                 | 127          | 126           | 20    | 1,098        | 3         | 3       | 389          | 9            |
| MOUNTAIN         | 5                 | 263          | 2,535         | -                                 | 44           | 37            | 2     | 428          | 4         | 3       | 221          | 3            |
| Mont.            | -                 | 105          | 1,162         | -                                 | 3            | 4             | -     | 145          | -         | -       | 18           | -            |
| Idaho            | -                 | 1            | 161           | -                                 | 4            | 6             | -     | 20           | -         | -       | 2            | 1            |
| Wyo.             | -                 | -            | 19            | -                                 | -            | 2             | -     | 1            | -         | -       | -            | -            |
| Colo.            | -                 | 37           | 504           | -                                 | 3            | 1             | 1     | 101          | -         | -       | 49           | 1            |
| N. Mex.          | -                 | -            | 257           | -                                 | 8            | 10            | -     | 16           | -         | -       | 3            | -            |
| Ariz.            | 5                 | 56           | 319           | -                                 | 15           | 10            | -     | 19           | 3         | 2       | 98           | -            |
| Utah             | -                 | 44           | 20            | -                                 | 6            | 3             | 1     | 118          | 1         | -       | 38           | 1            |
| Nev.             | -                 | 20           | 93            | -                                 | 5            | 1             | -     | 8            | -         | 1       | 13           | -            |
| PACIFIC          | 21                | 964          | 10,397        | 5                                 | 276          | 186           | 12    | 841          | 12        | 18      | 1,259        | 14           |
| Wash. †          | 7                 | 226          | 544           | -                                 | 44           | 26            | 1     | 192          | 2         | -       | 119          | 1            |
| Oreg.            | -                 | 148          | 366           | -                                 | 29           | 18            | -     | 111          | -         | 2       | 126          | -            |
| Calif.           | 14                | 577          | 9,392         | 2                                 | 189          | 110           | 10    | 530          | 10        | 16      | 994          | 13           |
| Alaska           | -                 | 1            | 60            | 1                                 | 9            | 20            | 1     | 11           | -         | -       | 8            | -            |
| Hawaii           | -                 | 12           | 35            | 2                                 | 5            | 2             | -     | 27           | -         | -       | 12           | -            |
| Guam             | NA                | 24           | 5             | -                                 | 1            | 1             | NA    | 38           | NA        | NA      | 4            | 1            |
| Pac. Trust Terr. | NA                | 27           | NA            | NA                                | 1            | NA            | NA    | 8            | NA        | NA      | 2            | -            |
| P.R. †           | 9                 | 276          | 995           | -                                 | 7            | 1             | 49    | 1,399        | -         | 1       | 17           | 9            |
| V.I.             | -                 | 6            | 14            | -                                 | 1            | -             | -     | 1            | -         | -       | 1            | -            |

NA: Not available.

\*Delayed reports received for 1977 are not shown below but are used to update last year's weekly and cumulative totals.

†The following delayed reports will be reflected in next week's cumulative totals: Measles: Wis. +2, W.Va. +2, P.R. +3; Men inf.: Ind. +1, Va. +4 civ. -4 mil.; Mumps: P.R. +5; Pertussis: Wis. +1, Wash. +2; Rubella: N.J. +1, Wis. -2.

TABLE III (Cont.'d). Cases of specified notifiable diseases, United States, weeks ending  
November 4, 1978, and November 5, 1977 (44th week)

| REPORTING AREA   | TUBERCULOSIS |              | TULA-<br>REMIA | TYPHOID<br>FEVER |              | TYPHUS FEVER<br>(Tick-borne)<br>(RMSF) |              | VENEREAL DISEASES (Civilian) |              |               |                        |              |               | RABIES<br>(in<br>Animals) |
|------------------|--------------|--------------|----------------|------------------|--------------|--|--------------|------------------------------|--------------|---------------|------------------------|--------------|---------------|---------------------------|
|                  |              |              |                |                  |              |  |              | GONORRHEA                    |              |               | SYPHILIS (Pri. & Sec.) |              |               |                           |
|                  | 1978         | CUM.<br>1978 | CUM.<br>1978   | 1978             | CUM.<br>1978 | 1978                                   | CUM.<br>1978 | 1978                         | CUM.<br>1978 | CUM.<br>1977* | 1978                   | CUM.<br>1978 | CUM.<br>1977* |                           |
| UNITED STATES    | 527          | 25,007       | 115            | 10               | 437          | 9                                      | 978          | 22,103                       | 859,213      | 847,356       | 487                    | 18,277       | 17,395        | 2,665                     |
| NEW ENGLAND      | 20           | 823          | 2              | -                | 77           | -                                      | 13           | 603                          | 21,925       | 22,810        | 15                     | 502          | 689           | 95                        |
| Maine            | 2            | 64           | -              | -                | -            | -                                      | -            | 40                           | 1,793        | 1,665         | -                      | 8            | 25            | 76                        |
| N.H.             | -            | 15           | -              | -                | 5            | -                                      | -            | 23                           | 1,006        | 933           | -                      | 5            | 4             | 3                         |
| Vt.              | 1            | 33           | -              | -                | 1            | -                                      | -            | 10                           | 528          | 566           | -                      | 3            | 7             | 2                         |
| Mass.            | 12           | 482          | -              | -                | 59           | -                                      | 5            | 223                          | 9,527        | 9,684         | 8                      | 309          | 482           | 7                         |
| R.I.             | 3            | 57           | -              | -                | 4            | -                                      | 1            | 49                           | 1,586        | 1,812         | -                      | 20           | 8             | -                         |
| Conn.            | 2            | 172          | 2              | -                | 8            | -                                      | 7            | 258                          | 7,485        | 8,150         | 7                      | 157          | 163           | 7                         |
| MID. ATLANTIC    | 91           | 4,158        | 5              | 3                | 59           | -                                      | 55           | 2,342                        | 92,680       | 88,899        | 78                     | 2,413        | 2,457         | 96                        |
| Upstate N.Y.     | 5            | 647          | 4              | 1                | 7            | -                                      | 31           | 321                          | 15,652       | 15,236        | -                      | 163          | 229           | 61                        |
| N.Y. City        | 31           | 1,523        | 1              | 1                | 38           | -                                      | 4            | 929                          | 35,120       | 34,332        | 60                     | 1,680        | 1,548         | -                         |
| N.J.             | 14           | 876          | -              | -                | 7            | -                                      | 12           | 432                          | 17,395       | 15,082        | 9                      | 296          | 317           | 14                        |
| Pa.              | 41           | 1,112        | -              | 1                | 7            | -                                      | 8            | 660                          | 24,513       | 23,249        | 9                      | 274          | 363           | 21                        |
| E.N. CENTRAL     | 81           | 3,962        | 1              | -                | 38           | -                                      | 47           | 3,904                        | 133,477      | 134,835       | 43                     | 2,041        | 1,781         | 162                       |
| Ohio†            | 13           | 729          | 1              | -                | 6            | -                                      | 21           | 1,304                        | 34,654       | 35,135        | 9                      | 377          | 416           | 18                        |
| Ind.             | 11           | 464          | -              | -                | 2            | -                                      | 1            | 508                          | 13,925       | 12,462        | 10                     | 145          | 134           | 13                        |
| Ill.†            | 30           | 1,484        | -              | -                | 17           | -                                      | 25           | 961                          | 42,246       | 43,503        | 22                     | 1,282        | 921           | 54                        |
| Mich.            | 22           | 1,092        | -              | -                | 13           | -                                      | -            | 926                          | 30,988       | 30,945        | 1                      | 182          | 215           | 7                         |
| Wis.             | 5            | 189          | -              | -                | -            | -                                      | -            | 205                          | 11,664       | 11,790        | 1                      | 55           | 95            | 70                        |
| W.N. CENTRAL     | 16           | 817          | 22             | -                | 19           | -                                      | 44           | 1,062                        | 43,475       | 43,965        | 7                      | 391          | 386           | 531                       |
| Minn.            | 1            | 139          | -              | -                | 7            | -                                      | -            | 77                           | 7,286        | 7,952         | 2                      | 137          | 122           | 155                       |
| Iowa             | 4            | 95           | 1              | -                | 3            | -                                      | 1            | 112                          | 4,766        | 5,128         | 2                      | 40           | 38            | 115                       |
| Mo.              | 9            | 362          | 18             | -                | 4            | -                                      | 20           | 569                          | 19,305       | 18,070        | 2                      | 127          | 149           | 71                        |
| N. Dak.          | -            | 31           | -              | -                | -            | -                                      | 1            | 14                           | 780          | 826           | -                      | 3            | 3             | 92                        |
| S. Dak.†         | -            | 65           | -              | -                | -            | -                                      | 7            | 28                           | 1,481        | 1,342         | -                      | 3            | 9             | 64                        |
| Nebr.            | -            | 21           | -              | -                | 1            | -                                      | 10           | 60                           | 3,136        | 3,816         | 1                      | 13           | 25            | 6                         |
| Kans.†           | 2            | 104          | 3              | -                | 4            | -                                      | 5            | 202                          | 6,721        | 6,831         | -                      | 68           | 40            | 28                        |
| S. ATLANTIC      | 99           | 5,346        | 9              | -                | 58           | 3                                      | 528          | 4,986                        | 209,109      | 207,973       | 132                    | 4,863        | 4,763         | 392                       |
| Del.†            | 3            | 49           | -              | -                | 3            | -                                      | 5            | 72                           | 2,933        | 2,868         | -                      | 10           | 19            | 3                         |
| Md.              | 15           | 807          | 5              | -                | 11           | -                                      | 105          | 539                          | 26,826       | 25,438        | 6                      | 369          | 294           | -                         |
| D.C.†            | -            | 259          | -              | -                | 1            | -                                      | 1            | 403                          | 14,036       | 13,677        | 10                     | 376          | 478           | -                         |
| Va.†             | 19           | 557          | 4              | -                | 5            | -                                      | 111          | 606                          | 20,240       | 21,752        | 10                     | 407          | 465           | 13                        |
| W. Va.           | 8            | 210          | -              | -                | 6            | -                                      | 11           | 58                           | 2,868        | 2,802         | 1                      | 25           | 3             | 12                        |
| N.C.†            | 21           | 837          | -              | -                | 2            | 1                                      | 194          | 727                          | 29,645       | 31,207        | 10                     | 510          | 649           | 13                        |
| S.C.†            | 4            | 457          | -              | -                | 8            | 2                                      | 56           | 408                          | 20,493       | 19,531        | 9                      | 249          | 212           | 93                        |
| Ge.†             | -            | 736          | -              | -                | 4            | -                                      | 45           | 908                          | 40,239       | 40,213        | 47                     | 1,213        | 1,056         | 244                       |
| Fla.†            | 29           | 1,434        | -              | -                | 18           | -                                      | -            | 1,265                        | 51,829       | 50,485        | 39                     | 1,704        | 1,587         | 14                        |
| E.S. CENTRAL     | 54           | 2,376        | 7              | 1                | 9            | 2                                      | 180          | 1,556                        | 72,623       | 75,431        | 37                     | 975          | 670           | 130                       |
| Ky.              | 9            | 535          | 3              | -                | 2            | -                                      | 42           | 322                          | 9,733        | 10,052        | 2                      | 128          | 87            | 65                        |
| Tenn.            | 19           | 736          | 3              | -                | 3            | 1                                      | 111          | 472                          | 26,706       | 30,320        | 20                     | 334          | 217           | 27                        |
| Ala.             | 8            | 573          | 1              | 1                | 3            | -                                      | 13           | 523                          | 20,784       | 20,834        | 4                      | 166          | 144           | 38                        |
| Miss.            | 18           | 532          | -              | -                | 1            | 1                                      | 14           | 239                          | 15,400       | 14,225        | 11                     | 347          | 222           | -                         |
| W.S. CENTRAL     | 78           | 2,944        | 56             | 6                | 43           | 3                                      | 96           | 2,627                        | 115,415      | 106,081       | 83                     | 2,937        | 2,523         | 803                       |
| Ark.†            | 9            | 346          | 38             | 2                | 9            | 1                                      | 15           | 264                          | 8,688        | 8,181         | 1                      | 62           | 63            | 134                       |
| La.              | 22           | 520          | 6              | 1                | 4            | -                                      | 1            | 365                          | 18,692       | 15,885        | 13                     | 630          | 593           | 20                        |
| Okla.            | 7            | 286          | 9              | 2                | 5            | -                                      | 54           | 162                          | 10,826       | 10,366        | -                      | 81           | 69            | 164                       |
| Tex.†            | 40           | 1,792        | 3              | 1                | 25           | 2                                      | 26           | 1,836                        | 77,209       | 71,649        | 69                     | 2,164        | 1,798         | 485                       |
| MOUNTAIN         | 19           | 729          | 9              | -                | 19           | 1                                      | 11           | 965                          | 32,855       | 34,241        | 14                     | 393          | 364           | 105                       |
| Mont.            | 2            | 53           | -              | -                | 3            | -                                      | 2            | 57                           | 1,853        | 1,813         | -                      | 8            | 5             | 19                        |
| Idaho            | 3            | 30           | 2              | -                | 5            | -                                      | 3            | 22                           | 1,339        | 1,555         | -                      | 13           | 11            | -                         |
| Wyo.             | -            | 14           | 2              | -                | -            | -                                      | 1            | 13                           | 796          | 785           | -                      | 8            | 2             | -                         |
| Colo.†           | 1            | 81           | 1              | -                | 4            | -                                      | 2            | 209                          | 9,017        | 8,919         | 2                      | 122          | 107           | 35                        |
| N. Mex.          | 1            | 119          | -              | -                | 2            | -                                      | -            | 216                          | 4,829        | 5,048         | 2                      | 76           | 76            | 23                        |
| Ariz.†           | 11           | 336          | 1              | -                | 3            | -                                      | 1            | 293                          | 8,492        | 9,516         | 10                     | 91           | 138           | 21                        |
| Utah             | -            | 32           | 3              | -                | 1            | -                                      | -            | 35                           | 1,770        | 2,036         | -                      | 12           | 10            | 7                         |
| Nev.             | 1            | 64           | -              | -                | 1            | 1                                      | 2            | 120                          | 4,759        | 4,569         | -                      | 63           | 15            | -                         |
| PACIFIC          | 69           | 3,852        | 4              | -                | 115          | -                                      | 4            | 4,058                        | 137,654      | 133,121       | 78                     | 3,762        | 3,762         | 351                       |
| Wash.†           | NA           | 244          | -              | -                | 7            | -                                      | 1            | 232                          | 11,336       | 10,305        | NA                     | 176          | 223           | 2                         |
| Oreg.            | 3            | 149          | 1              | -                | 1            | -                                      | 2            | 356                          | 9,540        | 9,239         | 5                      | 143          | 124           | 11                        |
| Calif.           | 60           | 2,940        | 3              | -                | 96           | -                                      | 1            | 3,348                        | 110,134      | 106,464       | 71                     | 3,393        | 3,358         | 330                       |
| Alaska           | -            | 59           | -              | -                | -            | -                                      | -            | 91                           | 4,228        | 4,319         | 1                      | 11           | 25            | 8                         |
| Hawaii           | 6            | 460          | -              | -                | 11           | -                                      | -            | 31                           | 2,416        | 2,794         | 1                      | 39           | 32            | -                         |
| Guam†            | NA           | 52           | -              | NA               | -            | NA                                     | -            | NA                           | 183          | 192           | NA                     | -            | 2             | -                         |
| Pac. Trust Terr. | NA           | 6            | -              | NA               | -            | NA                                     | -            | NA                           | 32           | NA            | NA                     | -            | NA            | -                         |
| P.R.             | 3            | 331          | -              | -                | 3            | -                                      | -            | 60                           | 1,910        | 2,733         | 7                      | 418          | 447           | 30                        |
| V.I.†            | -            | 4            | -              | -                | 2            | -                                      | -            | 6                            | 168          | 178           | 1                      | 16           | 8             | -                         |

NA: Not available.

\*Delayed reports received for 1977 are not shown below but are used to update last year's weekly and cumulative totals.

†The following delayed reports will be reflected in next week's cumulative totals: TB: Kans. -1, Del. -1, Va. +6, N.C. -2, Fla. -1, Ark. -1, Wash. +29, Guam +1; GC: D.C. +50 civ., S.C. -2, civ., Ga. +70 mil., Wash. +75 mil., Guam +3 civ., V.I. +4 civ.; Syphilis: Ill. +59 civ., Tex. +1 civ., Wash. +38 civ.; An rabies: Ohio +1, Wis. +2, S. Dak. +5, S.C. +2, Colo. +3, Ariz. +2.

TABLE IV. Deaths in 121 U.S. cities,\* week ending  
November 4, 1978 (44th week)

| REPORTING AREA       | ALL CAUSES, BY AGE (YEARS) |       |       |       |    | P & I**<br>TOTAL | REPORTING AREA        | ALL CAUSES, BY AGE (YEARS) |       |       |       |     | P & I**<br>TOTAL |
|----------------------|----------------------------|-------|-------|-------|----|------------------|-----------------------|----------------------------|-------|-------|-------|-----|------------------|
|                      | ALL AGES                   | >65   | 45-64 | 25-44 | <1 |                  |                       | ALL AGES                   | >65   | 45-64 | 25-44 | <1  |                  |
| <b>NEW ENGLAND</b>   | 652                        | 432   | 155   | 26    | 16 | 39               | <b>S. ATLANTIC</b>    | 1,018                      | 580   | 270   | 66    | 76  | 37               |
| Boston, Mass.        | 182                        | 108   | 45    | 12    | 6  | 7                | Atlanta, Ga.          | 148                        | 72    | 42    | 15    | 11  | 4                |
| Bridgeport, Conn.    | 37                         | 26    | 7     | —     | 3  | —                | Baltimore, Md.        | 157                        | 92    | 44    | 9     | 8   | 1                |
| Cambridge, Mass.     | 20                         | 15    | 5     | —     | —  | 4                | Charlotte, N.C.       | 56                         | 31    | 15    | 3     | 6   | 2                |
| Fall River, Mass.    | 35                         | 24    | 9     | 2     | —  | 3                | Jacksonville, Fla.    | 85                         | 57    | 20    | 6     | —   | 6                |
| Hartford, Conn.      | 47                         | 36    | 8     | 1     | 1  | 1                | Miami, Fla.           | 106                        | 58    | 29    | 8     | 8   | 6                |
| Lowell, Mass.        | 27                         | 18    | 8     | 1     | —  | 1                | Norfolk, Va.          | 41                         | 21    | 11    | 5     | 2   | 2                |
| Lynn, Mass.          | 23                         | 15    | 6     | 1     | —  | 1                | Richmond, Va.         | 93                         | 44    | 25    | 4     | 19  | 5                |
| New Bedford, Mass.   | 22                         | 15    | 5     | 1     | —  | —                | Savannah, Ga.         | 35                         | 21    | 10    | 1     | 3   | 2                |
| New Haven, Conn.     | 43                         | 24    | 10    | 4     | 2  | —                | St. Petersburg, Fla.  | 80                         | 69    | 10    | —     | 1   | 4                |
| Providence, R.I.     | 68                         | 47    | 16    | 1     | 3  | 7                | Tampa, Fla.           | 47                         | 31    | 11    | 2     | 2   | 4                |
| Somerville, Mass.    | 11                         | 8     | 2     | —     | —  | —                | Washington, D.C.      | 129                        | 57    | 42    | 12    | 16  | —                |
| Springfield, Mass.   | 45                         | 30    | 12    | 2     | —  | 4                | Wilmington, Del.      | 41                         | 27    | 11    | 1     | —   | 1                |
| Waterbury, Conn.     | 30                         | 23    | 7     | —     | —  | 4                |                       |                            |       |       |       |     |                  |
| Worcester, Mass.     | 62                         | 43    | 15    | 2     | —  | 3                |                       |                            |       |       |       |     |                  |
| <b>MID. ATLANTIC</b> | 2,260                      | 1,451 | 547   | 133   | 63 | 121              | <b>E.S. CENTRAL</b>   | 674                        | 401   | 181   | 35    | 25  | 29               |
| Albany, N.Y.         | 49                         | 30    | 12    | 2     | 1  | 1                | Birmingham, Ala.      | 96                         | 58    | 28    | 5     | 3   | —                |
| Allentown, Pa.       | 23                         | 15    | 6     | 1     | —  | —                | Chattanooga, Tenn.    | 56                         | 31    | 15    | 2     | —   | 3                |
| Buffalo, N.Y.        | 160                        | 98    | 41    | 9     | 4  | 15               | Knoxville, Tenn.      | 42                         | 30    | 10    | 1     | —   | 1                |
| Camden, N.J.         | 42                         | 25    | 13    | 2     | 2  | 2                | Louisville, Ky.       | 133                        | 86    | 29    | 4     | 9   | 12               |
| Elizabeth, N.J.      | 36                         | 25    | 9     | 2     | —  | 1                | Memphis, Tenn.        | 145                        | 85    | 46    | 9     | 1   | —                |
| Erie, Pa.†           | 34                         | 22    | 9     | 1     | 1  | 2                | Mobile, Ala.          | 47                         | 21    | 12    | 5     | 5   | 5                |
| Jersey City, N.J.    | 74                         | 40    | 31    | 1     | 2  | —                | Montgomery, Ala.      | 40                         | 21    | 10    | 4     | 2   | 2                |
| Newark, N.J.         | 56                         | 21    | 18    | 12    | 2  | 7                | Nashville, Tenn.      | 115                        | 69    | 31    | 5     | 5   | 6                |
| N.Y. City, N.Y.      | 1,449                      | 937   | 346   | 86    | 39 | 70               | <b>W.S. CENTRAL</b>   | 1,136                      | 620   | 297   | 80    | 68  | 32               |
| Patterson, N.J.‡     | 38                         | 23    | 9     | 3     | 2  | 3                | Austin, Tex.          | 43                         | 30    | 6     | 4     | —   | 1                |
| Philadelphia, Pa.†   | 490                        | 302   | 133   | 31    | 14 | 27               | Baton Rouge, La.      | 36                         | 26    | 7     | —     | —   | —                |
| Pittsburgh, Pa.†     | 52                         | 31    | 19    | 1     | 1  | 1                | Corpus Christi, Tex.  | 33                         | 14    | 9     | 3     | 4   | 2                |
| Reading, Pa.         | 39                         | 31    | 4     | 2     | 2  | 2                | Dallas, Tex.          | 164                        | 88    | 44    | 8     | 11  | 8                |
| Rochester, N.Y.      | 125                        | 92    | 20    | 2     | 6  | 10               | El Paso, Tex.         | 33                         | 24    | 6     | 2     | 1   | 2                |
| Schenectady, N.Y.    | 22                         | 12    | 7     | 3     | —  | —                | Fort Worth, Tex.      | 83                         | 45    | 24    | 4     | 4   | 4                |
| Scranton, Pa.†       | 19                         | 11    | 7     | 1     | —  | 2                | Houston, Tex.         | 307                        | 156   | 86    | 24    | 19  | 1                |
| Syracuse, N.Y.       | 60                         | 42    | 11    | 3     | 3  | 1                | Little Rock, Ark.     | 55                         | 27    | 12    | 7     | 4   | 4                |
| Trenton, N.J.        | 28                         | 18    | 7     | 3     | —  | 5                | New Orleans, La.      | 112                        | 54    | 35    | 7     | 10  | —                |
| Utica, N.Y.          | 25                         | 20    | 5     | —     | —  | 1                | San Antonio, Tex.     | 134                        | 69    | 39    | 13    | 5   | 2                |
| Yonkers, N.Y.        | 34                         | 22    | 8     | 2     | —  | 8                | Shreveport, La.       | 50                         | 33    | 8     | 4     | 5   | 2                |
|                      |                            |       |       |       |    |                  | Tulsa, Okla.          | 86                         | 54    | 21    | 4     | 5   | 6                |
| <b>E.N. CENTRAL</b>  | 2,287                      | 1,372 | 612   | 133   | 78 | 67               | <b>MOUNTAIN</b>       | 552                        | 330   | 134   | 36    | 23  | 20               |
| Akron, Ohio          | 77                         | 52    | 14    | 6     | 1  | —                | Albuquerque, N. Mex.  | 55                         | 30    | 16    | 6     | —   | 3                |
| Canton, Ohio         | 47                         | 30    | 15    | 1     | —  | —                | Colo. Springs, Colo.  | 31                         | 17    | 8     | 2     | 1   | 2                |
| Chicago, Ill.        | 536                        | 311   | 148   | 39    | 18 | 11               | Denver, Colo.         | 129                        | 80    | 34    | 8     | 3   | 5                |
| Cincinnati, Ohio     | 196                        | 126   | 49    | 10    | 6  | 4                | Las Vegas, Nev.       | 57                         | 28    | 18    | 4     | 3   | 2                |
| Cleveland, Ohio§     | 176                        | 100   | 53    | 11    | 5  | 3                | Ogden, Utah           | 20                         | 15    | 2     | —     | 1   | 1                |
| Columbus, Ohio       | 127                        | 73    | 35    | 17    | 4  | 6                | Phoenix, Ariz.        | 114                        | 75    | 18    | 8     | 9   | 4                |
| Dayton, Ohio         | 104                        | 64    | 32    | 4     | 3  | 3                | Pueblo, Colo.         | 18                         | 15    | 2     | —     | —   | 2                |
| Detroit, Mich.       | 271                        | 135   | 85    | 21    | 16 | 4                | Salt Lake City, Utah  | 40                         | 22    | 18    | 3     | 4   | —                |
| Evansville, Ind.     | 42                         | 34    | 5     | 2     | —  | 2                | Tucson, Ariz.         | 79                         | 48    | 18    | 5     | 2   | 1                |
| Fort Wayne, Ind.     | 55                         | 34    | 8     | 3     | 4  | 3                |                       |                            |       |       |       |     |                  |
| Gary, Ind.           | 22                         | 11    | 8     | —     | —  | —                |                       |                            |       |       |       |     |                  |
| Grand Rapids, Mich.  | 38                         | 33    | 2     | —     | 2  | 2                | <b>PACIFIC</b>        | 1,667                      | 1,084 | 387   | 93    | 51  | 48               |
| Indianapolis, Ind.   | 145                        | 88    | 40    | 10    | 3  | 4                | Berkeley, Calif.      | 19                         | 14    | 4     | 1     | —   | 2                |
| Madison, Wis.        | 44                         | 20    | 17    | 3     | 1  | 4                | Fresno, Calif.        | 64                         | 34    | 17    | 7     | 3   | 7                |
| Milwaukee, Wis.      | 135                        | 88    | 35    | 4     | 4  | 2                | Glendale, Calif.      | 28                         | 25    | 3     | —     | —   | 1                |
| Peoria, Ill.         | 30                         | 18    | 6     | 3     | 3  | 9                | Honolulu, Hawaii      | 51                         | 34    | 14    | 1     | 1   | —                |
| Rockford, Ill.       | 33                         | 21    | 6     | 1     | 3  | 3                | Long Beach, Calif.    | 77                         | 53    | 20    | 3     | —   | 5                |
| South Bend, Ind.     | 40                         | 26    | 6     | 2     | 1  | 2                | Los Angeles, Calif.   | 487                        | 321   | 124   | 20    | 9   | 13               |
| Toledo, Ohio         | 105                        | 67    | 26    | 2     | 4  | 3                | Oakland, Calif.       | 68                         | 43    | 16    | 5     | 3   | —                |
| Youngstown, Ohio     | 64                         | 41    | 22    | 1     | —  | —                | Pasadena, Calif.      | 23                         | 17    | 4     | 1     | 1   | —                |
|                      |                            |       |       |       |    |                  | Portland, Oreg.       | 98                         | 60    | 23    | 10    | —   | —                |
| <b>W.N. CENTRAL</b>  | 790                        | 531   | 154   | 42    | 30 | 26               | Sacramento, Calif.    | 77                         | 50    | 13    | 6     | 3   | 1                |
| Des Moines, Iowa     | 70                         | 55    | 9     | 3     | 1  | 1                | San Diego, Calif.     | 115                        | 66    | 25    | 9     | 7   | 1                |
| Duluth, Minn.        | 26                         | 19    | 5     | 2     | —  | —                | San Francisco, Calif. | 132                        | 87    | 30    | 8     | 7   | 3                |
| Kansas City, Kans.   | 46                         | 28    | 9     | 6     | 1  | 1                | San Jose, Calif.      | 164                        | 108   | 29    | 14    | 5   | 2                |
| Kansas City, Mo.     | 137                        | 91    | 34    | 7     | 1  | 7                | Seattle, Wash.        | 142                        | 95    | 35    | 4     | 3   | 4                |
| Lincoln, Nebr.       | 33                         | 21    | 4     | 2     | 1  | 4                | Spokane, Wash.        | 52                         | 36    | 9     | 2     | 3   | 6                |
| Minneapolis, Minn.   | 117                        | 85    | 16    | 4     | 9  | 2                | Tacoma, Wash.         | 70                         | 41    | 21    | 2     | 6   | 3                |
| Omaha, Nebr.         | 87                         | 48    | 28    | 5     | 4  | 1                |                       |                            |       |       |       |     |                  |
| St. Louis, Mo.       | 155                        | 105   | 24    | 7     | 11 | 5                | <b>TOTAL</b>          | 11,036                     | 6,801 | 2,737 | 644   | 430 | 419              |
| St. Paul, Minn.      | 65                         | 44    | 15    | 4     | 1  | 2                | Expected Number       | 10,533                     | 6,469 | 2,656 | 661   | 408 | 349              |
| Wichita, Kans.       | 54                         | 35    | 10    | 2     | 1  | 3                |                       |                            |       |       |       |     |                  |

\*Mortality data in this table are voluntarily reported from 121 cities in the United States, most of which have populations of 100,000 or more. A death is reported by the place of its occurrence and by the week that the death certificate was filed. Fetal deaths are not included.

†Pneumonia and influenza

‡Because of changes in reporting methods in these 4 Pennsylvania cities, there will now be 117 cities involved in the generation of the expected values used to monitor pneumonia and influenza activity in the United States. Data from these 4 cities will appear in the tables but will not be included in the totals for the United States and the Middle Atlantic Region.

§Data not available. Figures are estimates based on average percent of regional totals.



### *Cholera — Continued*

vestigation to determine the mode of transmission. Moore swabs in sewage can indicate that there are infected persons in a community who may not have sought medical assistance; in Louisiana, 3 sewage isolates of *V. cholerae* O1 have not been linked with known cases. Because the 2 surveillance methods are complementary, CDC recommends that other states initiating surveillance for cholera use both methods.

#### *Reference*

1. Moore B: Detection of paratyphoid carriers in towns by means of sewage examination. *Monthly Bulletin Ministry of Health (Great Britain)* 7:241-248, 1948

## **Human Exposure to a Rabid Flying Squirrel — Alabama**

Alabama recently reported a laboratory-confirmed case of rabies in a flying squirrel. This is only the second naturally-occurring case of rabies in a rodent in 10 years that has been confirmed by CDC.

On September 22, 1978, a 10-year-old girl was bitten on the finger by this squirrel; it was apparently ill at the time. The animal died 2 hours later and was presented to the School of Veterinary Medicine at Auburn University. A specimen from the animal was delivered to the Alabama Department of Public Health Laboratory on September 25. Examination by fluorescent antibody technique demonstrated the presence of rabies antigen; CDC confirmed the presence of rabies virus in the brain tissue on September 29.

The patient was seen by her local physician on September 26 and immediately started on duck embryo rabies vaccine. On September 28 she began receiving human diploid cell rabies vaccine and human rabies immune globulin.

*Reported by WE Birch, DVM, JL Holston, DrPH, FS Wolf, MD, State Epidemiologist, Alabama Dept of Public Health; Viral Zoonoses Br, Virology Div, Bur of Laboratories, Respiratory and Special Pathogens Br, Viral Diseases Div, Bur of Epidemiology, CDC.*

**Editorial Note:** In unusual cases of rabies CDC continues to request original material for confirmation of the diagnosis. Except for laboratory infections or cases resulting from inappropriate vaccination with live virus vaccines, no cases of rodent rabies have been confirmed by CDC since a case in a squirrel in California in 1972 (7).

#### *Reference*

1. Cappucci DT Jr, Emmons RW, Sampson WW: Rabies in an eastern fox squirrel. *J Wildl Dis* 8:340-342, 1972

## **Current Trends**

### **Influenza Vaccine for High-Risk Children**

The PHS Advisory Committee on Immunization Practices (ACIP) has published its recommendations for the use of influenza vaccine for high-risk individuals (1). These recommendations indicated that adults and youths 13-25 years of age could receive either whole or subvirion ("split virus") vaccines, but that children under the age of 13 should receive only the subvirion vaccine.

However, recent experience has indicated that some areas of the country have inadequate numbers of doses of the subvirion youth formulation. In view of this, the Committee on Infectious Diseases of the American Academy of Pediatrics has recommended that, where subvirion youth formulation is not available, the subvirion adult formulation be used in high-risk children under the age of 13 using the same volume and dosage timing as recommended for the subvirion youth formulation. The dosage schedule for high-risk children 3-12 years of age is 0.25 cc given intramuscularly or subcutaneously on each of 2 occasions 1 month apart; for high-risk children 6-35 months old, it is 0.15 cc on each of 2 occasions 1 month apart.

### *Influenza Vaccine for High-Risk Children — Continued*

The ACIP-recommended adult formulation contains 7  $\mu$ g of hemagglutinin of each of 3 antigens: A/USSR, A/Texas, and B/Hong Kong. The youth formulation contains 20  $\mu$ g of A/USSR hemagglutinin and 7  $\mu$ g each of A/Texas and B/Hong Kong. Data from the 1978 influenza vaccine field trials indicate that administration of the amount of A/USSR antigen contained in the adult formulation will result in the formation of hemagglutination inhibition antibodies at a titer  $\geq 1:40$  in 60%-67% of recipients age 3-12 years. Too few children less than 3 years of age received this dosage to make firm estimates about its effectiveness in that age group. It should be stressed that this recommendation definitely represents a second choice and is proffered only because there are apparent shortages of subvirion youth formulation vaccine in some parts of the country.

*Reported by the Committee on Infectious Diseases, American Academy of Pediatrics; Immunization Div, Bur of State Service, CDC.*

#### *Reference*

1. MMWR 27:285, 1978

## **Results of Screening for Gonorrhea — United States 6-Month Period Ending June 30, 1978**

In the 6-month period ending June 30, 1978, a total of 4,294,044 specimens were taken from women as part of gonorrhea screening programs; 188,200 (4.4%) were found to be positive. Table 1 reflects the results of such screening by types of health-care facilities securing the specimen. Although the positivity rates were highest (18.9%) in venereal disease clinics, 89% of all tests were performed in other settings. In these settings culture-positivity rates in women ranged from 1.6% in student health center groups to 4.3% for women in correctional or detention centers and in public/private hospital outpatient clinics. Among 925,069 women tested by private physicians, cultures from 16,498 (1.8%) were positive.

Provisional data indicate that an additional 1,453,034 women were tested at all types of facilities in July and August 1978, or about 726,517 per month. For this period, the overall positivity rate of cultures from all sources was 5.0%.

*Reported by Venereal Disease Control Div, Bur of State Services, CDC.*

**TABLE 1. Results of gonorrhea culture tests on females — United States,\* January 1978-June 1978**

| Reporting Source                             | Number Tested | Number Positive | Percent Positive | Reporting Source                             | Number Tested | Number Positive | Percent Positive |
|--|---------------|-----------------|------------------|--|---------------|-----------------|------------------|
| Health Care Providers (Excluding VD Clinics) | 3,834,973     | 101,575         | 2.6              | Health Care Providers (Excluding VD Clinics) |               |                 |                  |
| Health Department Non-VD Clinic              | 931,500       | 28,788          | 3.1              | Continued                                    |               |                 |                  |
| Family Planning                              | 667,379       | 20,443          | 3.1              | Private Physicians                           | 925,069       | 16,498          | 1.8              |
| Prenatal, Ob-Gyn                             | 100,482       | 2,910           | 2.9              | Private Family Planning Groups               | 543,119       | 8,136           | 1.5              |
| Cancer Detection                             | 8,527         | 125             | 1.5              | Group Health Clinics                         | 93,079        | 1,802           | 1.9              |
| Combinations or Other                        | 155,112       | 5,310           | 3.4              | Student Health Centers                       | 107,244       | 1,342           | 1.3              |
| Public/Private Hospital—Outpatient           | 689,092       | 29,560          | 4.3              | Manpower Training Agencies                   | 14,793        | 580             | 3.9              |
| Family Planning                              | 119,830       | 3,490           | 2.9              | Industrial Screening                         | 727           | 28              | 3.9              |
| Prenatal, Ob-Gyn                             | 158,284       | 4,837           | 3.1              | Military/Dependents                          | 41,978        | 1,337           | 3.2              |
| Cancer Detection                             | 1,771         | 26              | 1.5              | Correctional or Detention Centers            | 29,812        | 1,286           | 4.3              |
| Combinations or Other                        | 409,207       | 21,207          | 5.2              | Not Specified                                | 40,203        | 1,106           | 2.8              |
| Public/Private Hospital—Inpatient            | 32,720        | 774             | 2.4              | Venereal Disease Clinics                     | 459,071       | 86,675          | 18.9             |
| Obstetric                                    | 1,866         | 20              | 1.1              | TOTAL (All Clinics)                          | 4,294,044     | 188,200         | 4.4              |
| Gynecologic                                  | 1,447         | 61              | 4.2              |  |               |                 |                  |
| Combinations or Other                        | 29,407        | 693             | 2.4              |  |               |                 |                  |
| Community Health Centers                     | 385,637       | 10,288          | 2.7              |  |               |                 |                  |
| Family Planning                              | 114,500       | 2,086           | 1.8              |  |               |                 |                  |
| Prenatal, Ob-Gyn                             | 37,858        | 953             | 2.5              |  |               |                 |                  |
| Cancer Detection                             | 5,505         | 65              | 1.2              |  |               |                 |                  |
| Combinations or Other                        | 227,774       | 7,184           | 3.2              |  |               |                 |                  |

Source: Form CDC 9.124, HEW, PHS, CDC, BSS, VD Control Division, Evaluation and Statistical Services Section.

## International Notes

### Encephalitis Outbreak — India

According to releases from Air India Radio, an outbreak of viral encephalitis has resulted in 448 deaths in Uttar Pradesh, India's most populous state. Most of the cases have been reported from the eastern districts of that state, although some have also been reported from New Delhi, the nation's capital, and 27 deaths have been reported from Bihar State, east of Uttar Pradesh.

Japanese B encephalitis infection has been shown to be the cause of the outbreak by serologic testing and viral isolation performed at the Calcutta School of Tropical Medicine and the Indian National Institute of Virology on serum and tissue specimens from a small number of cases.

*Reported by Viral Diseases Div, Bur of Epidemiology, CDC.*

**Editorial Note:** Japanese B encephalitis is a mosquito-borne disease that is endemic in much of Asia. Studies have shown that hundreds of inapparent or mild infections may occur for each case of clinical encephalitis, but that the fatality rate for encephalitic patients may exceed 20% (1). It is typically a rural disease, and the vector mosquitoes, such as those of the *Culex vishnui* group, breed abundantly in rice paddies found in agricultural areas. Inactivated vaccine is commercially produced in Japan, but it is not licensed for use in the United States.

Because of the paucity of accurate, official information regarding the outbreak, it is difficult to assess the severity or the geographic extent of the Japanese B virus activity. Nevertheless, based on the prevalence of the mosquito vector and pattern of past outbreaks, travelers to urban areas, even in northeastern India, are probably at very low risk of infection.

#### Reference

1. Horsfall FL, Tamm I (eds): *Viral and Rickettsial Infections of Man*. 4th ed. Philadelphia, Lippincott, 1965, pp 626-631

### Notice Regarding Vaccines for International Travel

A collection of recommendations by the Public Health Service Advisory Committee on Immunization Practices (ACIP) on vaccines that may be useful in international travel is available upon request. This publication (ID #99-101, dated September 1978) contains the ACIP's most current statements on vaccines against cholera, plague, smallpox, typhoid, typhus, and yellow fever. Copies of the collection may be ordered by writing the Public Inquiries Office (1/B2), Center for Disease Control, Atlanta, Ga. 30333.

The Morbidity and Mortality Weekly Report, circulation 78,750, is published by the Center for Disease Control, Atlanta, Georgia. The data in this report are provisional, based on weekly telegraphs to CDC by state health departments. The reporting week concludes at close of business on Friday; compiled data on a national basis are officially released to the public on the succeeding Friday.

The editor welcomes accounts of interesting cases, outbreaks, environmental hazards, or other public health problems of current interest to health officials. Send reports to: Center for Disease Control, Attn: Editor, Morbidity and Mortality Weekly Report, Atlanta, Georgia 30333.

Send mailing list additions, deletions, and address changes to: Center for Disease Control, Attn: Distribution Services, GSO, 1-SB-36, Atlanta, Georgia 30333. When requesting changes be sure to give your former address, including zip code and mailing list code number, or send an old address label.

## Erratum, Vol. 27, No. 42

- p 404** In the article "Viral Gastroenteritis — Pennsylvania" add the Laboratory of Infectious Diseases, National Institute of Allergy and Infectious Diseases, to the credits. Also, in the fourth line of the Editorial Note, reference 3 refers to a transmissible, 27-nm agent that is not serologically related to the Norwalk virus.

**U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE  
PUBLIC HEALTH SERVICE / CENTER FOR DISEASE CONTROL  
ATLANTA, GEORGIA 30333 OFFICIAL BUSINESS**

Director, Center for Disease Control  
William H. Foege, M.D.  
Director, Bureau of Epidemiology  
Philip S. Brachman, M.D.  
Editor  
Michael B. Gregg, M.D.  
Managing Editor  
Anne D. Mather, M.A.

Postage and Fees Paid  
U.S. Department of HEW  
HEW 396

